HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

.	UTILITY TENT APPLICATION TRANSMITTAL
βPA	TENT APPLICATION
B	TRANSMITTAL

(Only for new nonprovisional applications under 37 C F.R. 1.53(b))

Attorney Docket No.	0975.1005-008	
First Named Inventor or Application Identifier	Junming Le	
Express Mail Label No.	EL551547474US	(

Title of
Invention

ANTI-TNF ANTIBODIES AND PEPTIDES OF HUMAN TUMOR NECROSIS FACTOR

<u>ö</u>	1111	ention								
	See MI		PLICATION EL	EMENTS patent application conten	ts.	DR	ESS TO	Assistant Box Pate Washingt	Commissionent Applications, D.C. 202	er for Patents n 331
1.	[X]		smittal Form n original, and a duplic	ate for fee processing)	6.	[]	Microfic	che Computer P	rogram <i>(Appe</i>	endix)
 [X] Specification Total Pages 164 (preferred arrangement set forth below) Descriptive title of the invention Cross References to Related Applications Statement Regarding Fed sponsored R & D Reference to microfiche Appendix Background of the Invention Summary of the Invention Brief Description of the Drawings 							Nucleoti (if application a. [X] b. [X] c. [X]	Computer Re Paper Copy (6 Pages	sary) adable Copy identical to co	ence Submission emputer copy) y of above copies
			ed Description	awnigs			ACC	OMPANYING	APPLICATION	ON PARTS
3.	ΓV1	- Claim - Abstra	(s) act of the Disclosure		8.	[] [X]	Assignee	nent Papers (cover - Centocor, In rk University, N	c., Malvern, P	ennsylvania
٥.	[X]	[X]Form	s) (35 U.S.C. 113) T nal [] Informa							
			of the Drawings for	Publication []	9.	[]	37 C.F.I (when the	R. 3.73(b) State ere is an assignee,	ment []	Power of Attorney
4.	[X]	Oath or D	Declaration/POA T	otal Pages 16	10.	[]	English '	Translation Doc	cument (if app	licable)
		a. []]	Newly executed (orig	ginal or copy)	11.	[]	Informat Statemer	tion Disclosure at (IDS)/PTO-1	449 []	Copies of IDS Citations
		b. [X] (for continuation/divisi	plication (37 C F R 1.63(conal with Box 17 complete Box 5 below]		[]	Prelimin	ary Amendmen	t	
		i	Signed staten	F INVENTOR(S) nent attached deleting amed in the prior	13.	[X]	Return R (Should i	teceipt Postcard be specifically i	(MPEP 503) temized)	
				ee 37 C.F.R. 1.63(d)(2	2) 14.	[]	Small En Statemen	ntity [] S nt(s) st	tatement filed atus still prop	in prior application, er and desired
5.	[X]	The entire of	disclosure of the prior a	seable if Box 4b is checke pplication, from which a		[]	Certified (if foreign	Copy of Priorit n priority is cla	ty Document(simed)	5)
		considered	as being part of the dis-	upplied under Box 4b, is closure of the accompany ated by reference therein.	ing 10.	[] [X]	Nonpubli Other:	ication Request Remarks Lette		t application)
8.	H	a CONTI	NUING APPLICAT	TION, check appropria	te box and	sum	nly the rec	misite informat	ion:	
		[] Conti			ntinuation-			of prior app		09/133,119
	P	rior applica	ation information:	Examiner: K. Canel		P	(011)	Group Art U		09/133,119
				19. CORRES	SPONDE	NCE	ADDRE			
٧A	ME		Carolyn S. Elm	nore						
		00		ROOK, SMITH & RE	YNOLDS	, P.	C.			
	DRES	30	Two Militia Driv							
_	UNTI	BV	Lexington	STATE	MA (704) 00	1.65		ZIP CODE	02421-479	
	JOINT	XI	USA	TELEPHONE	(781) 86	1-62	40	FAX	(781) 861-9	9540

Signature	Deighe E. Sanders	Date	January 8, 2001
Submitted by Typed or Printed Name	Deirdre E. Sanders	Reg. Number	42,122

01/08/01

A Will had nite from the test of the first from the first from the first first from the first fi

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

F	E	Ε	T	R	Α	N	S	V	117	ΓŢ	Ά	L	F	0	R
P	Α	T	Ε	N'	T	Α	P	Ρ	LI	C	Α	TI	O	N	S

		.0
Attorney Docket Number	0975.1005-008	ω; ⊃
Application Number		950
First Named Inventor	Junming Le	j

CLAIM CALCULATION (includes any preliminary amendment)

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) C	CALCULATIONS	
	TOTAL CLAIMS (37 CFR 1.16(c) or (j))	55 – 20* =	35	x \$18=	\$	630	
A Property of the Control of the Con	INDEPENDENT CLAIMS (37 CFR 1 16(b) or (i))	14 - 3** =	11	x \$80 =	\$	880	
	MULTIPLE DEPENDENT C	LAIMS (if applicable) (37 (CFR 1.16(d))	+ \$ 270 =	\$		
				BASIC FEE (37 CFR 1.16(a) or (h))	\$	710	
			Total of	above Calculations =	\$	2220	
		Reduction by 50% for filing	ng by small entity (37 CF	FR 1.9, 1.27, 1.28) =	\$		
				TOTAL =	\$	2220	
		Surcharge - Late Filing of De	eclaration or Filing Fees	(37 C.F.R. 1.16(e)) =	\$		
		Petition	for Extension of Time Fe	ee (37 C.F.R. 1.17) =	\$		
	Assignment Recordation Fee = (only when filed with application)						
	* Reissue claims in excess of ** Reissue independent claims	20 and over original patent over original patent	3.1	TOTAL =	\$	2220	

l. Small	entity	sta	tus:
----------	--------	-----	------

11

Other.

- a. [] A small entity statement is enclosed.
- b. [] A small entity statement was filed in the prior non-provisional application and such status is still proper and desired.
- c. [] Is no longer claimed.
- 2. [X] A general authorization is hereby granted to charge deposit account number 08-0380 for any fees required under 37 CFR 1.16 and 1.17 in order to maintain pendency of this application. A copy of this authorization is enclosed for accounting purposes.
- 3. [X] A check is enclosed for \$2220.00.

[] Please charge \$[] to Deposit	Account No.	08-0380
-----------------------	--------------	-------------	---------

т.	LJ	Other.

Signature	Deido E. Sondert	Date	January 8, 2001
Submitted by Typed or Printed Name	Deirdre E. Sanders	Reg. Number	42,122

PTA - EXPRESS MAIL ONLY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

09/756301 09/756301 01/08/01

PATENT APPLICATION

Attorney's Docket No.: 0975.1005-008

Applicants:

Junming Le, Jan Vilcek, Peter Daddona, John Ghrayeb,

David M. Knight and Scott Siegel

Divisional Application of

Application No.:

09/133,119

Filed:

August 12, 1998

For:

ANTI-TNF ANTIBODIES AND PEPTIDES OF HUMAN

TUMOR NECROSIS FACTOR

Date: 01-08-01

EXPRESS MAIL LABEL NO. EL 551 547 474 US

<u>REMARKS</u>

Box PATENT APPLICATION

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

The above-captioned application is a divisional of application number 09/133,119, filed on August 12, 1998 to which priority is claimed under 35 U.S.C. §120.

The Specification has been revised to incorporate amendments filed in the parent application and to correct minor typographical errors and informalities. The Related Applications paragraph has been revised and updated to include the parent application and issued patents. The discussion of WEHI cytotoxicity assays of fusion proteins has been moved from Example XXVI to Example XXVII for clarity.

Three incomplete sentences in the Specification have been completed for clarity. The first two sentences of the description of Figures 31A-31C have been amended to read: "Figures 31A-31C are graphical representations showing that fusion proteins protected WEHI 164 cells from TNF α cytotoxicity. Cells were first sensitized to TNF α with actinomycin D and then

incubated in 2 ng/ml TNFα with varying concentrations of TNFα overnight at 37°C." See page 15, lines 12-15. The sentence in Example XXVI bridging page 145, line 29 - page 146, line 2, has been amended to read: "pH 730 contains coding sequences for all three constant domains of human IgG1 and was designed to accomodate the Xba1 fragments of pHC707 at a unique Xbal site upstream of the IgG1 coding sequences (Figure 28)." Support for these amendments is found in application 08/010,406 (the '406 application), filed January 29, 1993, which is entirely incorporated into the present Specification by reference (see page 1, lines 4-18 of the present Specification). Specifically, support for the amendment on page 15, lines 12-15 of the present Specification is found in the '406 application on page 8, lines 19-26, and the accompanying '406 Figures 5A-C. Support for the amendment on page 145, line 29 - page 146, line 2 of the present Specification is found on page 21, lines 31-34 of the '406 application.

The "Sequence Listing" (sheets 1/6 through 6/6) has been inserted.

Figures 16A-16B and Figures 32A-32B have been deleted and Figures 17A-31 and Figures 33A-36 have been renumbered accordingly. Formal drawings are being filed in lieu of the informal drawings originally filed with the parent application. Please note that this deletion and renumbering of the figures took place in the parent application (09/133,119), and it is being done in the instant application to be consistent. Formal Figure 32 has been revised to correct a typographical error in the figure legend.

Claims 1-34 have been omitted and new Claims 1-55 have been added.

If the Examiner desires, Applicants will produce a redlined version or other comparison document comparing this application with the immediate parent thereof. No new matter has been added. As such, a copy of the declaration from the parent application is being filed herewith.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Dendie E. Sanders
Deirdre E. Sanders

Registration No. 42,122

Telephone (781) 861-6240

Facsimile (781) 861-9540

Lexington, Massachusetts 02421-4799

Dated:

January 8, 2001

Date: 01-08-01

EXPRESS MAIL LABEL NO. \$\frac{1}{255154747474} US



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Junming Le, Jan Vilcek, Peter Daddona, John Ghrayeb, David M. Knight

and Scott Siegel

Title:

ANTI-TNF ANTIBODIES AND PEPTIDES OF HUMAN TUMOR

NECROSIS FACTOR

TRANSMITTAL OF SEQUENCE LISTING IN COMPUTER READABLE FORM IN COMPLIANCE WITH 37 C.F.R. §§1.821(e) AND (f)

Box Sequence Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Transmitted herewith is a copy of the "Sequence Listing" in computer readable form as required by 37 C.F.R. §1.821(e). As required by 37 C.F.R. §1.821(f), Applicant's Attorney hereby states that the content of the "Sequence Listing" in paper form and of the computer readable form of the "Sequence Listing" are the same.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

Deirdre E. Sanders

Registration No.: 42,122 Telephone (781) 861-6240

Facsimile (781) 861-9540

Lexington, Massachusetts 02421-4799